

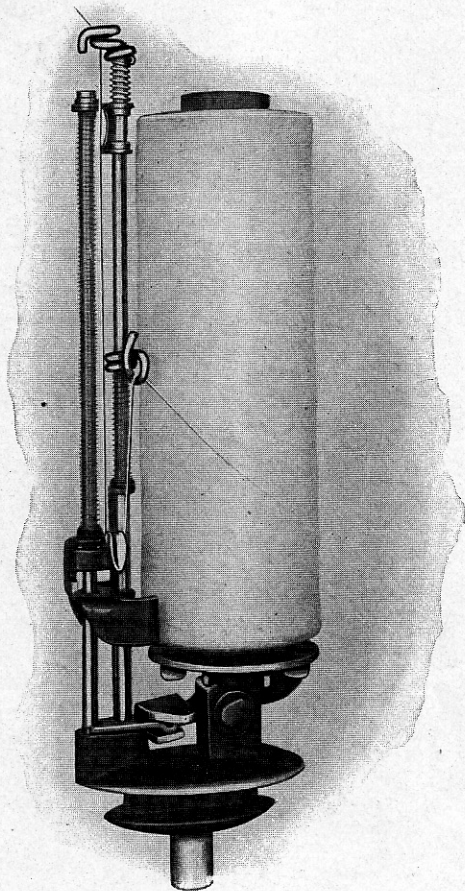
The
MOSSPEED
BRAIDER CARRIER



CATALOG No. 135

MOSSBERG PRESSED STEEL PRODUCTS

FOR THE BRAIDING, TEXTILE AND WIRE INDUSTRIES



Guarantee

MOSSPEED Carriers and Parts are guaranteed for one year against faulty workmanship and material. Any material which proves to be defective, when used for the purpose intended, will be replaced. No charges for labor or expenses due to defective parts or occasioned by them will be allowed.

MOSSPEED High Speed Braider Carriers,
Steel Cop Holders and Bobbins are manufac-
tured by the Mossberg Pressed Steel Corporation,
in addition to the following products:

U-NI-FORM Individual Warp Tension Guides for
Braiding Machines.

For Wire Industry

Steel Spools and Reels
Annealing and Stranding Reels
Detachable-Head Spools and Reels
Wire Weaving Bobbins
Bunching Machine Spools
Vulcanizing and Impregnating Reels
Vulcanizing Pans

For Textile Industry

Drop Wires for Loom Warp Stop Motions
Steel Beamheads (stationary and adjustable)
Paperless Warp Beams
Section Beamheads
Complete Loom Beams
Selvedge Spools and Top Beams
Heavy-Duty Webbing Beams
Narrow Fabric Beams
Carpet Warp Beams
Axminster Spools
Steaming Bobbins and Tubes
Perforated Dyeing Tubes

Miscellaneous

Metal Tanks
Steel Skid Platforms
Special Steel Stampings

Mossberg Pressed Steel Corporation

Attleboro, Massachusetts, U. S. A.

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Announcing

A Forward Step in Braiding Machine Earning Power

The Mosspeed Braider Carrier

UNDoubtedly every manufacturer whose goods, or parts of whose goods are produced on braiding machines, would welcome the speeding up of those machines, provided his product did not thereby lose its established quality.

With the increase in cost of so many items which enter into the process of manufacture, *speed of production* (machine speed in the main) has become of paramount importance.

Attempts have been made to "revolutionize" the construction of braiding machines themselves in order to obtain greater speed. The result has invariably been the development of machines which are over-costly, over-complicated in construction and calling for high maintenance expense. Machines which lack adaptability in varying types of product and are unable to develop sufficient extra speed to offset their shortcomings.

Over fifteen years ago, Frank Mossberg, President of the Mossberg Pressed Steel Corporation, recognized the need of increased speed in braiding machine operation. He saw clearly that changes in the braiding machines were not necessary if a better type of braider carrier could be perfected.

When he started to develop the MOSSPEED Braider Carrier, he knew that the main task was to apply a yarn take-up that would produce even

tension at all times and at practically any machine-speed. He felt that he must find some kind of compensating action in the braider carrier that would be smooth, instantaneous and unfailing, no matter what the direction of travel, or position and speed of the carrier.

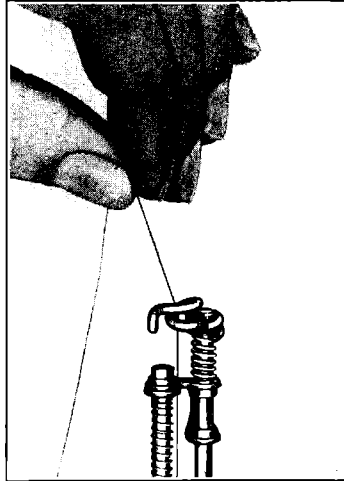
The result of this study and experimentation was the MOSSPEED Braider Carrier. In this device the old-style dropweight, which has always limited the speed at which the standard, or "MAY-pole," type of braiding machine could be operated, was replaced by a spiral compression spring. The action of this spring is so positive, sensitive and rapid that a braiding machine equipped with the new carriers can be run at from 35%-85% greater speed than ever before (depending on the kind of work to be done) without the slightest danger of "bowing" or "looping" of the yarn.

THE MOSSPEED braider carrier has been in practical use for a number of years and is now considered the most essential standard carrier.

To convert a "May-pole" type braiding machine into one that is the most effective high-speed type now involves but three steps—the removal of the old drop-weight tension Carriers, their replacement with MOSSPEEDS, and increasing the speed of the drive shaft sufficiently to obtain the desired high speed.

In addition to the savings effected by the increase in machine speed, another saving of major importance, to be considered on some classes of work, is the saving in the amount of yarn used. This is made possible by not only the uniform tension but the fact that the yarn can be operated on MOSSPEED Carriers with a greater tension than would be possible with the dropweight tension Carrier.

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MOSSPEED Carriers are equipped with "pigtail" open-end threadeyes in preference to the usual eyelet type eye, in order to facilitate threading the carriers, resulting in the reduction of doffing time to a minimum.

The MOSSPEED Carrier, due to its design, will produce a more uniform braid than a tension dropweight Carrier because there is a constant and uniform tension on the yarn irrespective of the position of the Carrier. This is of utmost importance to all braid manufacturers, especially those in the textile industry.

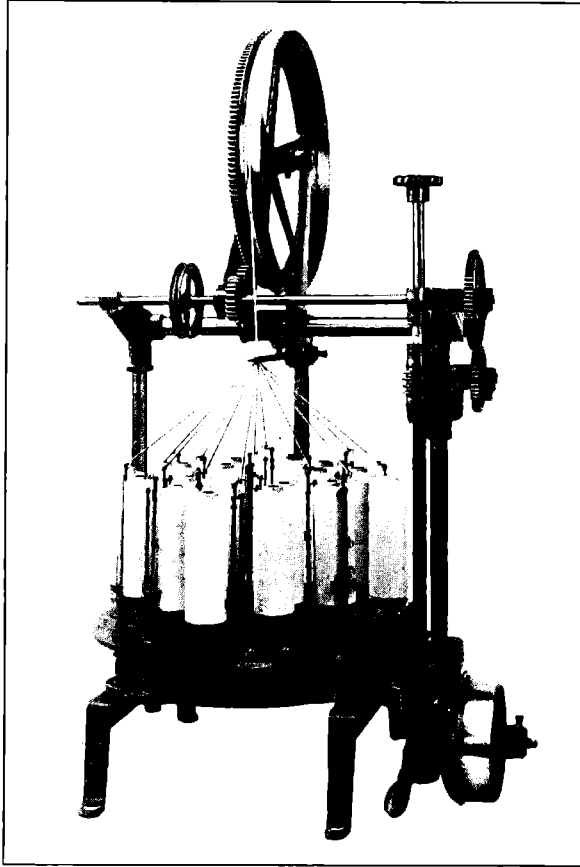
MOSSPEED Carriers are made for all May-pole type braiders, including New England Butt, Fidelity and Textile braiders. They can be furnished as standard equipment on both New England Butt Company's and Fidelity Machine Company's braiders. A complete list of sizes and other interesting technical tables are contained in this catalog.

A unit of May-pole type braiding machines, equipped with MOSSPEED Carriers, will show up most favorably as compared to other types of braiding equipment with the following important factors taken into consideration:

1. **Investment cost versus output.**
2. **Depreciation and maintenance cost.**
3. **Horsepower per output.**
4. **Adaptability to various types of production.**
5. **General cost of operation.**

Based on all the above important factors the lowest braiding cost can only be obtained by an installation of May-pole type braiders equipped with MOSSPEED high speed Carriers.

MOSSPEED MEANS HIGH SPEED BRAIDING



New England Butt Company 16 Carrier Braider

This braider is shown completely equipped with No. 2BX Mosspeed high speed Braider Carriers and Mosspeed No. 2SE Steel Cop Holders, which are made to accommodate Universal-wound yarn packages.

Mosspeed Braider Carriers, Bobbins, Cop Holders and other devices and appliances illustrated in this catalog are covered by United States Patents with others pending.

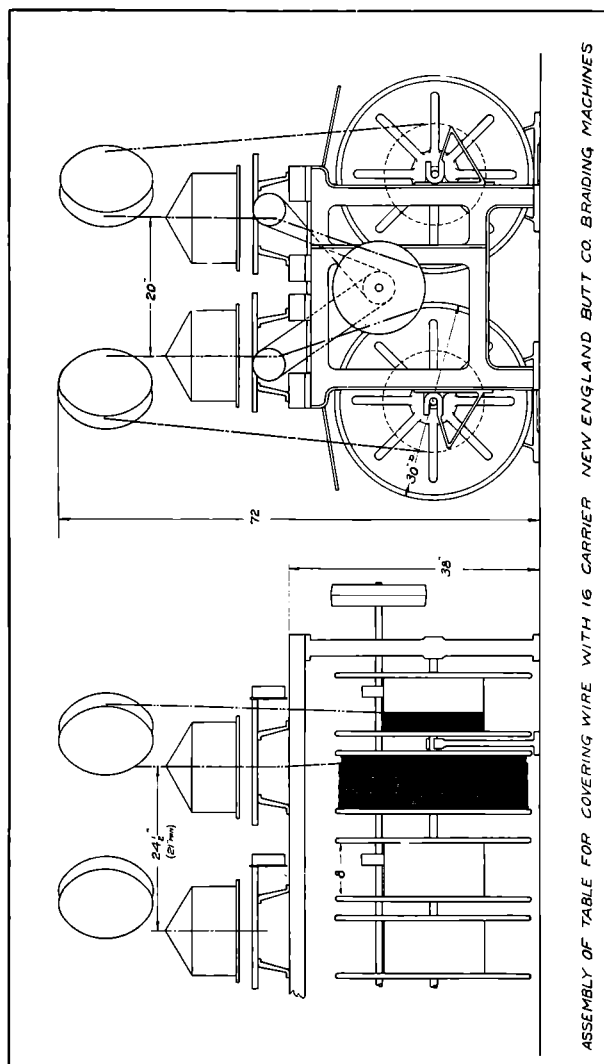
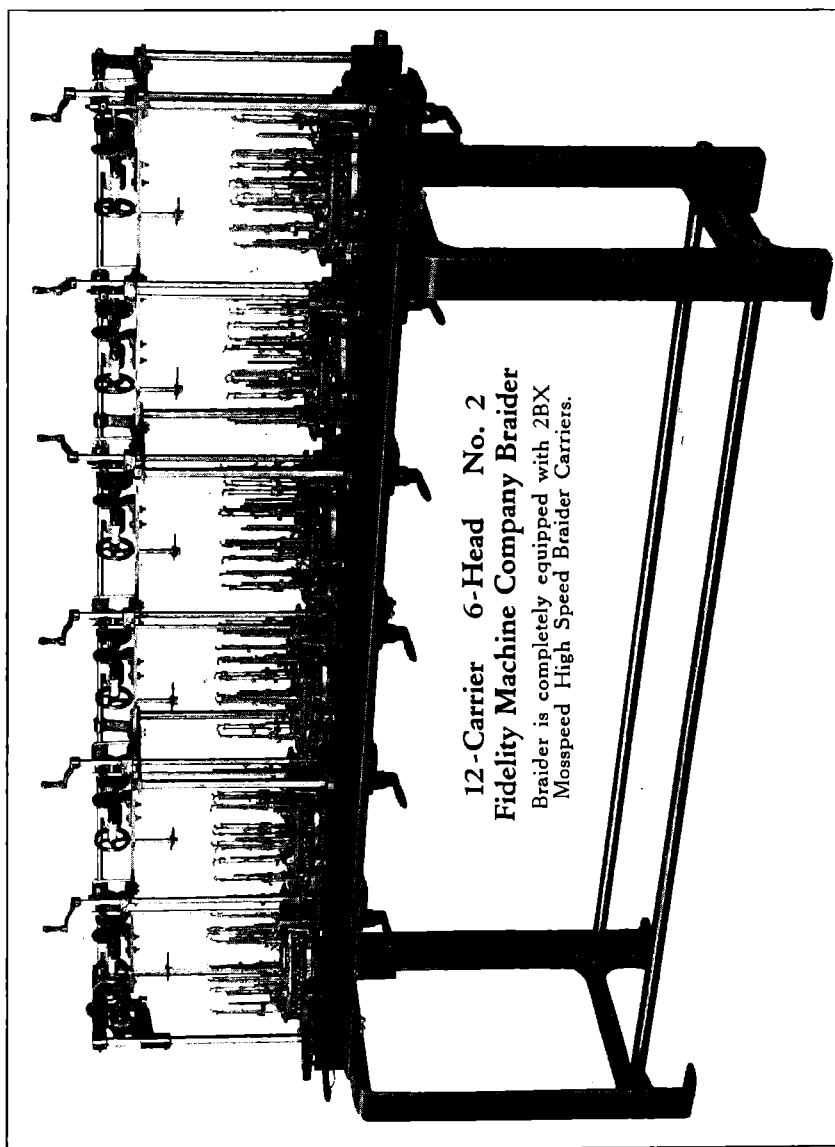
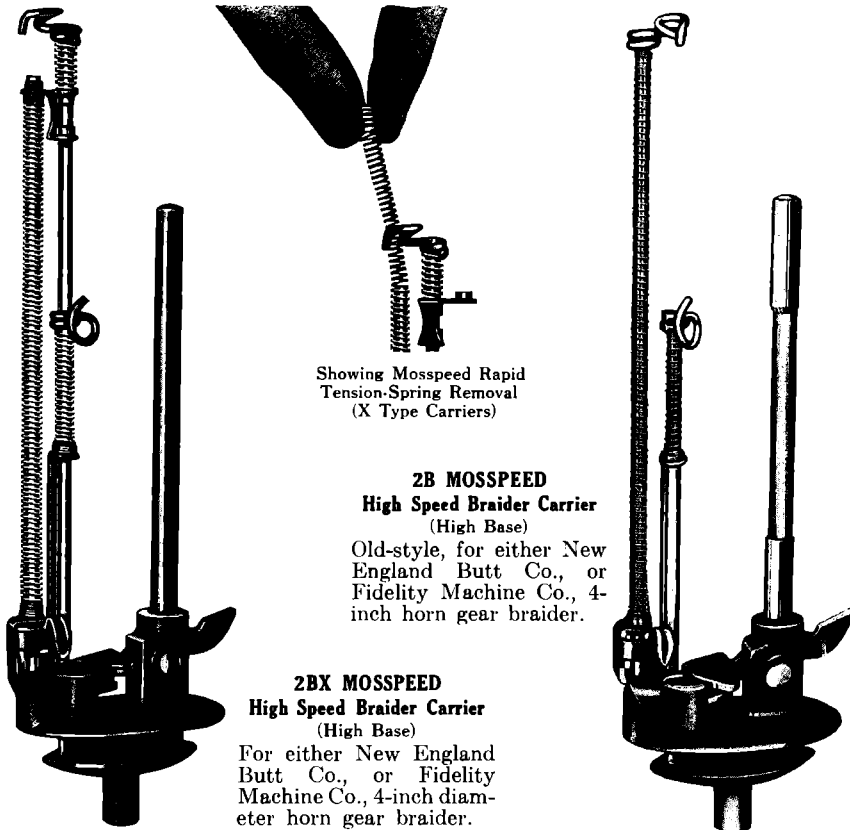


Diagram Showing Braiding Machine Arrangement on New England Butt Company Bench



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THIS rapid tension spring removal feature on the "X" type Mosspeed Carrier is particularly suitable for braiding which requires constant changing of tension springs. It is also very desirable in the braiding of products where excessive "lint" on yarn necessitates frequent cleaning. This new feature permits changing of tension springs in no more time than was formerly used in changing tension weights on the old drop-weight tension carrier.

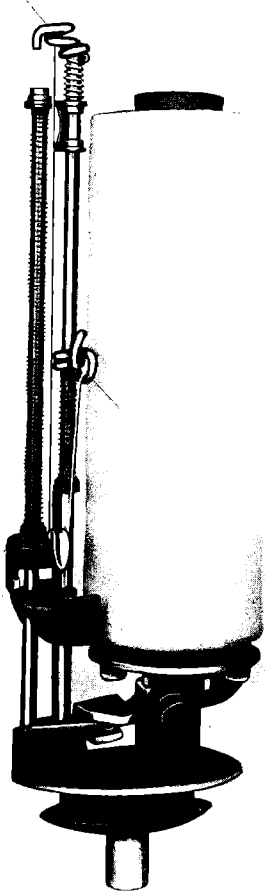
The double rod construction not only makes the carrier much more rigid and substantial, but it also assists materially in producing a more uniform braid. Especially effective on fine tension work, as the braider stop can travel only in its predetermined vertical plane.

Sizes and Identification of MOSSPEED Carriers **and Corresponding Make of Braider** **with diameter of Horn Gear**

MOSSPEED Carrier size and number	Make of Braider	Dia. of Horn Gear
1BX or 1B	N. E. Butt Co. or Fidelity Machine Co.	3"
1BAX or 1BA	N. E. Butt Co. or Fidelity Machine Co.	3"
2BX or 2B	N. E. Butt Co. or Fidelity Machine Co.	4"
6BX or 6B	N. E. Butt Co. Special	4"
3BX or 3B	N. E. Butt Co. or Fidelity Machine Co.	5"
4BX or 4B	N. E. Butt Co. or Fidelity Machine Co.	6"
3/4TX or 3/4T	Textile Machine Works (German Type Braider)	2.716" (69-mm)
1TX or 1T	Textile Machine Works	3"
1 1/2 TAX or 1 1/2 TA	Textile Machine Works	3.543" (90-mm)
2TX or 2T	Textile Machine Works	4"
2TBX or 2TB	Textile Machine Works	4"
3TX or 3T	Textile Machine Works	5"
4TX or 4T	Textile Machine Works	6"
5TX or 5T	Textile Machine Works	7"

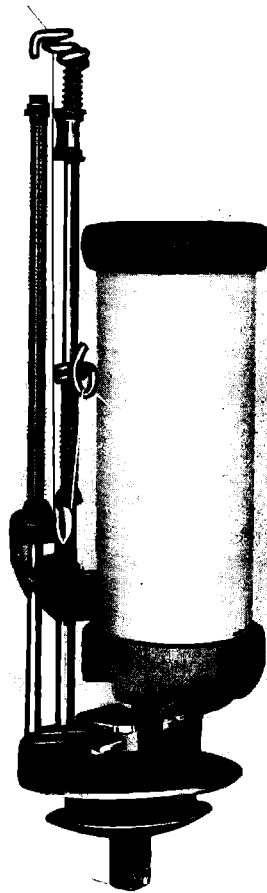
NOTE: Most sizes of MOSSPEED Carriers are made for double-thick braider plate,
as well as single-thickness plate.

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2BX MOSSPEED
High Base Carrier

Shown with 2SE Cop Holder with 5-inch traverse, Universal-wound yarn package. Note how much more easily the carrier may be threaded due to the open-end pig tails. Position of threadeyes on the carrier eliminates the possibility of the yarn "picking-up" oil.



2BX MOSSPEED
High Base Carrier

Shown with 4-inch traverse, double-head wood bobbin.

MOSSPEED Carriers will accommodate either Universal-wound yarn packages or parallel-wound, double-head bobbins.

Recommended Sizes of Yarn Packages or Wooden Bobbins for Use on Various Sizes of MOSSPEED Carriers

Size and Number of MOSSPEED Carrier	Standard Height of MOSSPEED Carriers for Round Braiders	Recommended (max.) diameter and length of Universal- Wound Yarn Package	Recommended (max.) diameter and traverse of Double-Head Bobbin
3/4T.....	6 1/4"	1 3/16" dia. x 4" long	1 3/16" dia. x 3 1/2" trav.
3/4TX.....	6 1/2"	1 3/16" dia. x 4" long	1 3/16" dia. x 3 1/2" trav.
1B and 1T.....	6 1/4"	1 5/16" dia. x 4" long	1 5/16" dia. x 3 1/2" trav.
1BX and 1TX.....	6 1/2"	1 5/16" dia. x 4" long	1 5/16" dia. x 3 1/2" trav.
1BA.....	6 1/4"	1 7/16" dia. x 4" long	1 7/16" dia. x 3 1/2" trav.
1BAX.....	6 1/2"	1 7/16" dia. x 4" long	1 7/16" dia. x 3 1/2" trav.
1 1/2TA.....	7"	1 3/4" dia. x 5" long	1 3/4" dia. x 4" trav.
1 1/2TAX.....	7 1/4"	1 3/4" dia. x 5" long	1 3/4" dia. x 4" trav.
2B.....	7"	1 7/8" dia. x 5" long	1 7/8" dia. x 4" trav.
2BX.....	7 1/4"	1 7/8" dia. x 5" long	1 7/8" dia. x 4" trav.
6B.....	7 1/2"	1 7/8" dia. x 5 1/2" long	1 7/8" dia. x 4 1/2" trav.
6BX.....	7 3/4"	1 7/8" dia. x 5 1/2" long	1 7/8" dia. x 4 1/2" trav.
2T.....	7 1/2"	1 7/8" dia. x 5 1/2" long	1 7/8" dia. x 4 1/2" trav.
2TX.....	7 3/4"	1 7/8" dia. x 5 1/2" long	1 7/8" dia. x 4 1/2" trav.
2TB.....	7"	1 7/8" dia. x 5" long	1 7/8" dia. x 4" trav.
2TBX.....	7 1/4"	1 7/8" dia. x 5" long	1 7/8" dia. x 4" trav.
3B.....	9"	2 5/8" dia. x 6" long	2 5/8" dia. x 5" trav.
3BX.....	9 3/4"	2 5/8" dia. x 6" long	2 5/8" dia. x 5" trav.
3T.....	5"	2 1/2" dia. x 6" long	2 1/2" dia. x 5" trav.
3TX.....	9 3/4"	2 1/2" dia. x 6" long	2 1/2" dia. x 5" trav.
4B and 4T.....	9"	3 1/8" dia. x 6 1/2" long	3 1/8" dia. x 6" trav.
4BX and 4TX.....	9 3/4"	3 1/8" dia. x 6 1/2" long	3 1/8" dia. x 6" trav.
5T.....	10 1/2"	3 1/2" dia. x 7" long	3 1/2" dia. x 6" trav.
5TX.....	11"	3 1/2" dia. x 7" long	3 1/2" dia. x 6" trav.

Carrier heights, specified in above table, are for standard MOSSPEED Carriers for round braiders.
All sizes can be furnished in any special heights for either round or flat braiders. Standard height
carriers always furnished unless otherwise specified.

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Color Chart For Tension Springs for MOSSPEED High Speed Braider Carriers

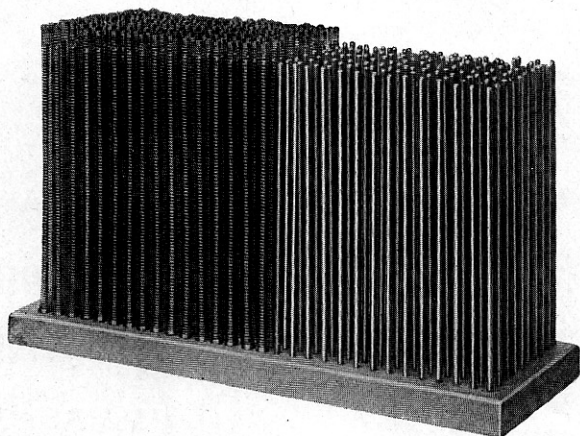
EACH end of the tension spring for MOSSPEED Carriers is colored, to make the different tension springs easily distinguished from each other. The following table specifies the various colors of the different sizes of standard tension springs, with their equivalent in ounces. It also specifies the various sizes of carriers on which each group of springs is used.

Coloring on each end of the tension spring eliminates the possibility of various sizes becoming mixed together in the braiding plant.

COLOR	Size of Tension Springs	Standard Length Spring Equivalent to (approx.)	Used on the following Sizes of Carriers
Coppered 1/2" length..	.010" (short)	3/4 ounce	For MOSSPEED Carriers having 5/32" dia. tension rods consisting of the following: 3/4 TX 3/4 T 1 BX 1 B 1 BAX 1 BA 1 TX 1 T 1 1/2 TAX 1 1/2 TA 2 BX 2 B 2 TBX 2 TB
Red.....	.010"	1 ounce	
Jade Green.....	.011"	1 1/2 ounces	
Orange.....	.012"	2 ounces	
Natural.....	.014"	3 ounces	
Black.....	.016" or heavier		
Red.....	.010"	3/4 ounce	For MOSSPEED Carriers having 3/16" dia. tension rods consisting of the following: 2 TX 2 T 6 BX 6 B
Jade Green.....	.011"	1 ounce	
Orange.....	.012"	1 1/2 ounces	
Natural.....	.014"	2 1/2 ounces	
Black.....	.016" or heavier		
Red.....	.016"	8 ounces	For MOSSPEED Carriers having 1/4" dia. tension rods consisting of the following: 3 BX 3 B 3 TX 3 T 4 BX 4 B 4 TX 4 T 5 TX 5 T
Jade Green.....	.018"	12 ounces	
Orange.....	.020"	16 ounces	
Natural.....	.022"	20 ounces	
Black.....	.024" or heavier		
Red.....	.022"	16 ounces	For special MOSSPEED Carriers having 1/4" dia. tension rods consisting of the following: 2 BDX 3 BDX
Jade Green.....	.024"	22 ounces	
Orange.....	.026"	30 ounces	
Natural.....	.028"	40 ounces	
Black.....	.031" or heavier		

Mosspeed Springs Have Soldered Ends

Tension Spring Board

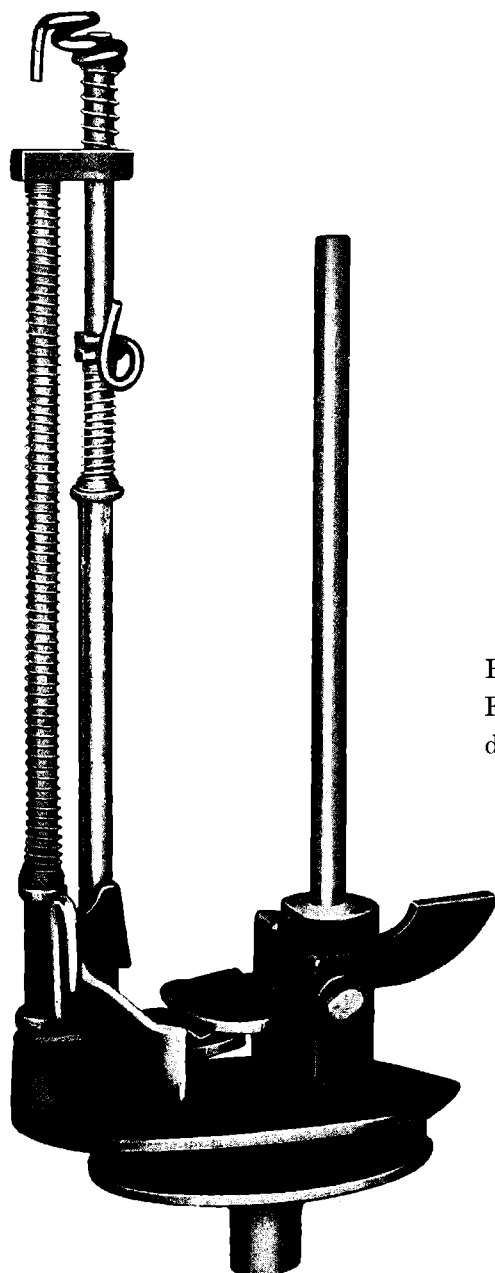


Convenient Method of Storing Tension Springs

THE Tension-Spring Board, as illustrated, represents a most convenient method of storing various sizes of Tension Springs without danger of the springs becoming snarled or the various sizes mixed.

These special boards for storing the springs are very easily made. A board approximately 1" thick is used for the base and the required number of steel pins inserted. The length of the pins and the spacing of same depend upon the length and size of the tension springs which they are to accommodate.

The base of the board may be painted the same color as the ends of the springs so as to be easily distinguishable. As a further means of identification, the board may be tagged with the number and size of the springs, together with the corresponding carrier upon which they are to be used.

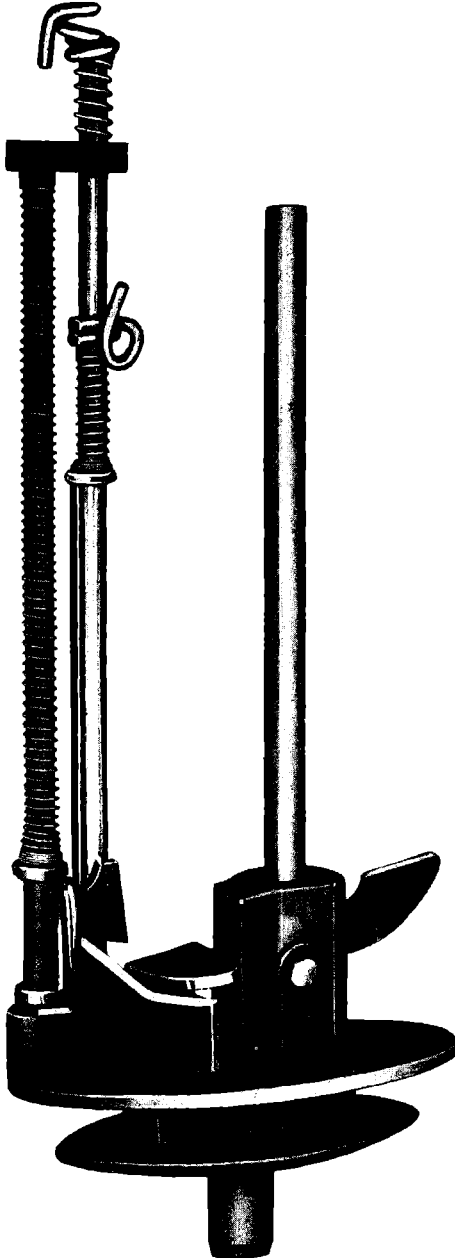


**4 BX
MOSSPEED
Carrier**

(High Base Type)

For New England Butt Co., or
Fidelity Machine Co., 6-inch
diameter horn gear braider.

ATTLEBORO MASSACHUSETTS U. S. A.



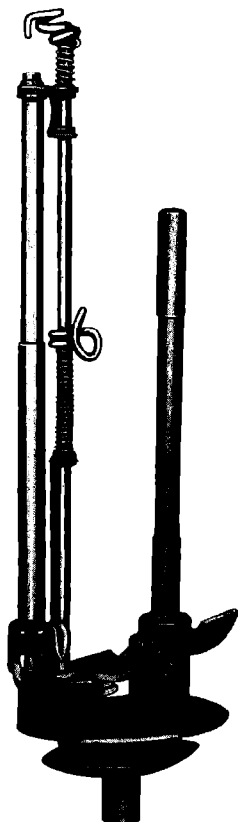
**4TX
MOSSPEED
Carrier**

(High Base Type)

To fit Textile Machine Co. 6-inch
diameter horn gear braider.

(5TX fits Textile Machine Co. 7 inch
diameter horn gear braider.)

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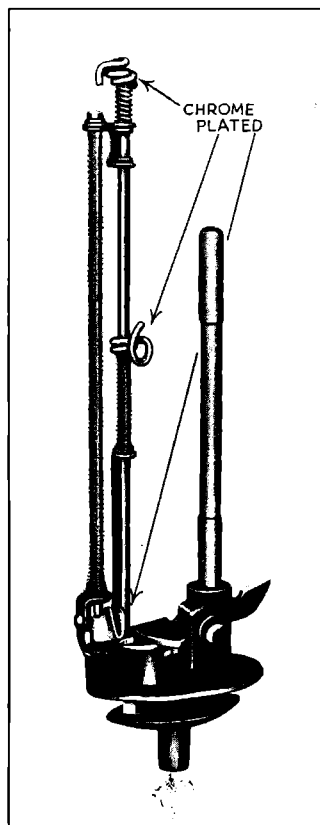
2BX MOSSPEED Carrier

(High Base Type)

With Spring Covers

SPRING covers of hardened steel. Recommended only for use when braiding a product such as asbestos, jute, etc., where there is excessive lint on yarn. Used in braiding asbestos-covered heater cord, asbestos packings, graphite packings, jute covered cables, etc.

To use spring covers on some sizes of MOSSPEED Carriers it is necessary to increase the height of the standard carrier to obtain sufficient take-up stroke.



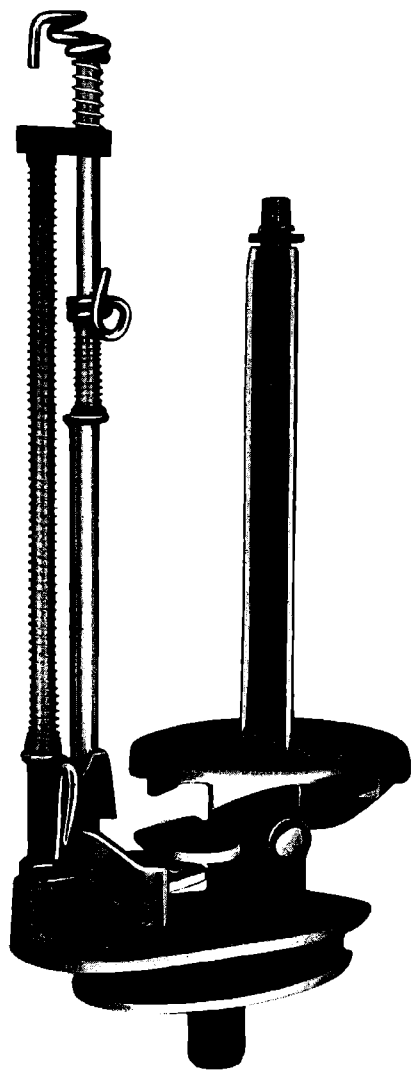
2BX MOSSPEED Carrier

(High Base Type)

With Chrome Plated Threadeyes

SPECIALLY hardened steel threadeyes, chrome plated for maximum wear resistance. Recommended for use in braiding asbestos yarn, copper wire, hard-twisted silk, etc.

Threadeye on braider stop is detachable as it is only riveted. This permits the threadeye being replaced when worn, without replacing the entire braider stop.

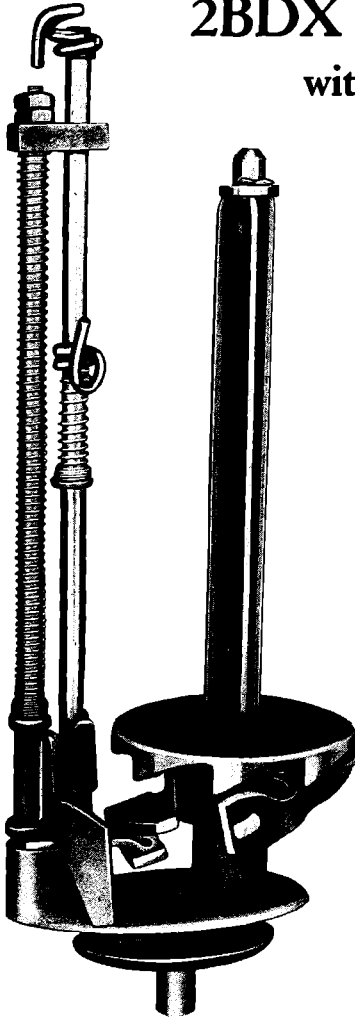


4BX MOSSPEED CARRIER — Horizontal Type (HIGH BASE)

EQUIPPED with 4RD Steel Cop Holder, fastened to spindle in a semi-permanent manner. For New England Butt Co., or Fidelity Machine Co., horizontal 6-inch diameter horn gear braiders.

A complete line of MOSSPEED Carriers is manufactured for all sizes and makes of horizontal-type "May-pole" type braiders. The carrier illustrated accommodates Universal-wound yarn packages. Carriers are also made to accommodate double-head, wood bobbins. When double-head, wood bobbins are used, carriers are furnished with a special spring clip on the spindle which does not interfere with rapid changing of bobbins.

2BDX MOSSPEED Carrier with 3RD Cop Holder



Made in the Following Sizes:

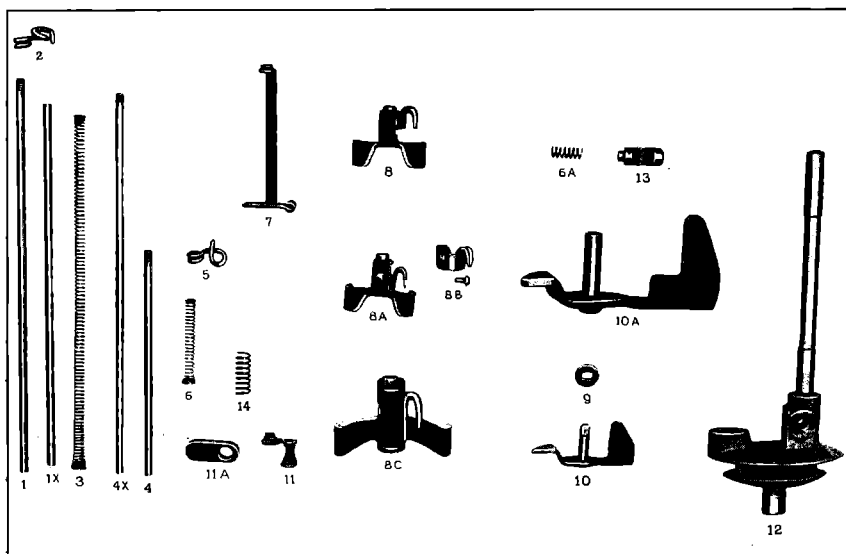
2BDX Carrier for 4-inch diameter Horn Gear Braider, accommodating 2 3/4 inch diameter yarn package.
3 BDX Carrier for 5-inch diameter Horn Gear Braider, accommodating 3 1/8-inch diameter yarn package.

2BDX high base, MOSSPEED Carrier is shown, with 3RD Cop Holder fastened to spindle in a semi-permanent manner. For New England Butt Co., or Fidelity Machine Co., 4-inch diameter Horn Gear Braider.

These Special MOSSPEED Carriers are manufactured for producing "Diamond Braid Heavy Cords." They give the advantage of using an extra large cop of yarn or bobbin of extra capacity, and are of sufficient strength to withstand the usual heavy tension required.

When using this type on a round braider, only half the usual number of carriers can be used.

There is an unusual advantage in using this special type of carrier for this class of work. A very hard and dense cord is produced by the uniform spring tension of these MOSSPEED Carriers without resorting to the extra heavy and clumsy weight required by the old tension drop weight carrier. The elimination of this heavy weight naturally minimizes wear and tear on both carrier and braider when MOSSPEED Carriers are used and permits a very satisfactory increase in speed.



Parts for Following Standard MOSSPEED Carriers

3/4TX - 1BX - 1BAX - 1TX - 1½TAX - 2BX - 2TBX - 6BX
 3BX - 3TX - 4BX - 2TX - 4TX - 5TX - 3/4T - 1B - 1BA
 1T - 1½TA - 2B - 2TB - 6B - 2T - 3B - 3T - 4B - 4T - 5T

Part No.	Part Name	Part No.	Part Name
1	Tension Rod	8B	Braider Stop, Detachable Threadeye and Rivet
1X	Tension Rod (for "X" type Carrier)	8C	Braider Stop (for No. 3 Carrier and larger)
2	Top Threadeye	9	Pawl Washer
3	Tension Spring	10	Pawl
4	Center Rod	10A	Pawl (for No. 5 size Carrier)
4X	Center Rod (for "X" type Carrier)	11	Connecting Link (for smaller sizes of "X" type Carrier)
5	Center Threadeye	11A	Connecting Link (for "X" type Carrier No. 3 and larger)
6	Pawl Spring	12	Base
6A	Pawl Spring (for No. 5 size Carrier)	13	Pawl Spring Pin (for No. 5 size Carrier)
7	Pawl Lift	14	Connecting Link Shift Spring (for "X" type Carrier)
8	Braider Stop		
8A	Braider Stop with Detachable Threadeye		

When ordering parts, give size of MOSSPEED Braider Carrier and Part Number. For example, if one hundred tension rods for 2-B carriers are required, order as follows:

100—2-B, Part No. 1

If required for "X" type Carrier:

100—2-BX, Part No. 1X

NOTE: Standard heights or sizes will always be furnished unless otherwise specified.

MOSSPEED ALL-STEEL

Cop Holders and Bobbins

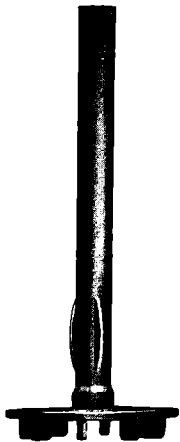
MOSSPEED steel Cop Holders and Bobbins are especially recommended for use in combination with MOSSPEED Carriers. As they are made of ALL STEEL and all parts are securely welded or brazed into one homogeneous unit, they will outlast the ordinary wooden type *many times* over.

The teeth on the MOSSPEED steel Cop Holders and Bobbins will not wear out the same as the wooden type, which means increased efficiency in the braiding operation.

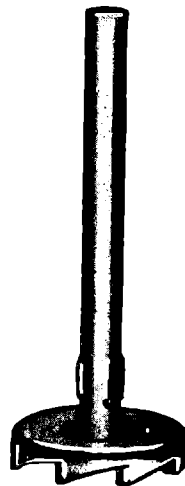
It is of utmost importance to have Cop Holders and Bobbins with good sharp teeth if a high rate of efficiency is to be maintained, especially so at the higher speeds.

MOSSPEED steel Cop Holders and Bobbins do away with practically all replacement costs and eliminate waste resulting from imperfect work, caused by Bobbins with worn teeth.

The MOSSPEED steel Cop Holders and steel Bobbins will operate successfully and efficiently, not only with MOSSPEED Braider Carriers, but with any standard type of Braider Carrier.



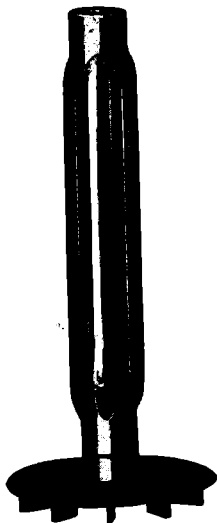
No. 1 SA Cop Holder
All-Steel High Base



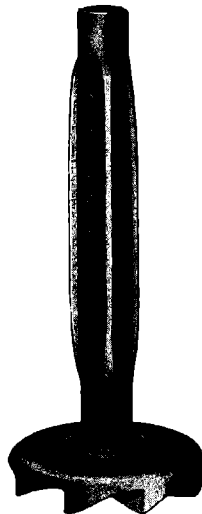
No. 2 RA Cop Holder
All-Steel High Base

STEEL COP HOLDERS ELIMINATE WASTE

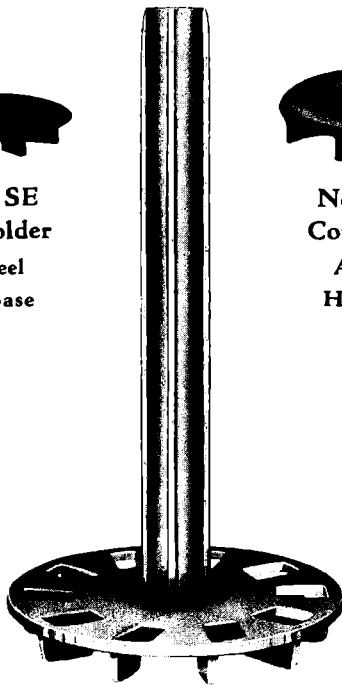
MOSSPEED ALL-STEEL Cop Holders and Bobbins



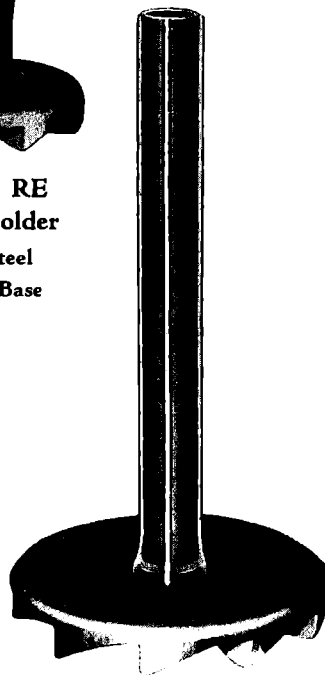
**No. 2 SE
Cop Holder
All-Steel
High Base**



**No. 2 RE
Cop Holder
All-Steel
High Base**



**No. 4 SD Cop Holder
All-Steel High Base**



**No. 4RD Cop Holder
All-Steel High Base**

MOSSPEED All-Steel Cop Holders

Size	Diameter of Base	Standard Length of Tube or Traverse	Styles
No. 1	1 5/16"	4"	SA-SE
No. 2	1 13/16"	4"	SA-SE-RA-RE
No. 3	2 1/2"	5"	RD
No. 4	3"	5"	SD-RD
No. 5	3 3/8"	6"	RD-RD1

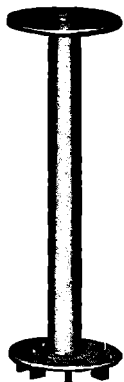
ALL sizes and styles of Cop Holders are made to fit either high base or low base type Carriers. The high base type has a recess at the center of the bottom of the base of the Cop Holder, whereas in the low base type, the center is flush with the bottom of the teeth.

No. 3 size Cop Holders and larger are made to fit either 5/16" diameter or 3/8" diameter carrier spindles. Smaller sizes only made to fit 5/16" diameter spindles.

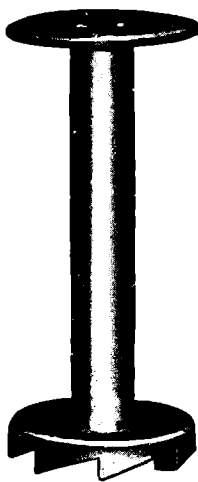
When ordering Cop Holders be sure to specify the size of Cop Holder, whether high base or low base type and size of carrier spindle. Also type and size of carrier with which Cop Holder is to be used.

NOTE—If used with a top-latch tension dropweight carrier, specify length of yarn package or length of paper tube to be used on Cop Holder.

MOSSPEED All-Steel Braider Bobbins



No. 2 SG Braider Bobbin
All-Steel High Base



No. 4 RG Braider Bobbin
All-Steel High Base

Size	Diameter of Bobbin	Standard Traverse	Styles
No. 1	1 5/16"	3 1/2"	SG
No. 2	1 13/16"	4"	SG-RG
No. 3	2 1/2"	5"	RG
No. 4	3"	6"	SG-RG
No. 5	3 3/8"	6"	RG-RGI

ALL sizes and styles of MOSSPEED steel Braider Bobbins are made to fit either high base or low base type Carriers. The high base type has a recess at the center of the bottom of the base of the Braider Bobbin. In the low base type the center is flush with the bottom of the teeth.

No. 3 size MOSSPEED steel Bobbins and larger are made to fit either 5/16" diameter or 3/8" diameter carrier spindles. Smaller sizes only made to fit 5/16" diameter spindles.

When ordering MOSSPEED steel Bobbins, be sure to specify the size and traverse required and whether high base or low base type, and size of carrier spindle, also type and size of carrier with which bobbin is to be used.

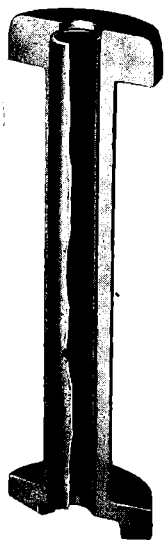


Fig. 1



Fig. 2

Steel Center Tubes *for* Wood Braider Bobbins

Illustration shows cross section of bobbin with steel tube inserted, (Figure 1) and steel tube before insertion. (Figure 2).

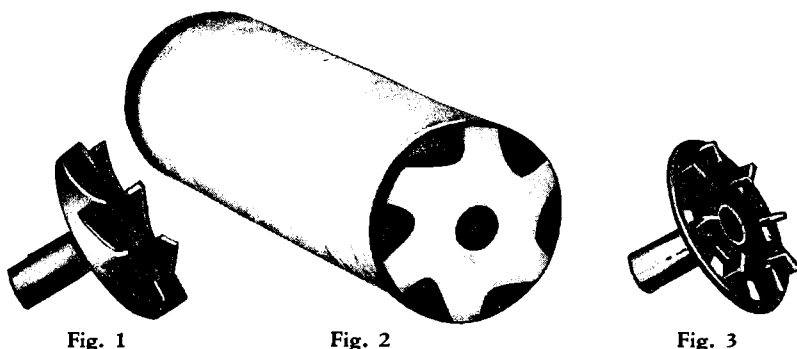
IT has been found from experience that, when light weight, No. 1 wood braider bobbins are used with high speed Mosspeed Carriers, a much higher rate of efficiency and better results are obtained when steel tubes are inserted in the bobbins as illustrated.

This serves a two-fold purpose. It increases the weight of the bobbin in order to obtain the best results at high speeds. This steel tube also prevents the center hole of the bobbin from becoming worn.

These steel tubes are very inexpensive and are made with butted seam, thereby having a natural tendency to expand. This insures the tube remaining tight when inserted in the wood bobbin.

It is a very simple and inexpensive operation to fit these steel tubes to wood braider bobbins. The center hole of the bobbin is drilled or reamed to the required size. (Note from illustration that tube should not pass entirely through the center hole of the bobbin.) It only remains, then, for the tube to be inserted in the bobbin to the required depth, a *tight push fit being sufficient*.

Using a steel tube insert in the center hole of the wood bobbin not only gives higher efficiency in the braiding operation when MOSSPEED high speed carriers are used but a better braided product is obtained. It also eliminates using bobbin stop arrangements on the carrier spindle, often required to prevent the bobbin from lifting, which are a constant source of trouble, as they increase the "doffing" time.



Steel Bobbin Bases

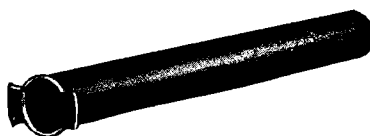
FIGURE 1 shows a steel bobbin base with ratchet teeth, No. 2R. Figure 3 shows steel bobbin base with straight teeth, No. 2S. Both are made in either high or low base type. Figure 2 shows typical wood bobbin.

The teeth of wood bobbins are particularly subject to wear and breakage. As soon as the teeth become worn or broken, the wood bobbin becomes a very inefficient unit. It reduces the efficiency of the braiding machine and will cause defects in product due to imperfect operation.

However, such wood bobbins with worn and damaged teeth may be salvaged and their life greatly lengthened by the use of steel bobbin bases. The old wood teeth may be ground or cut off the bobbin and one of the ALL-STEEL bases, shown above, forced into place. It is only necessary to ream the center hole slightly for a short distance to accommodate the shank of the steel bobbin base.

Steel Braider Tubes

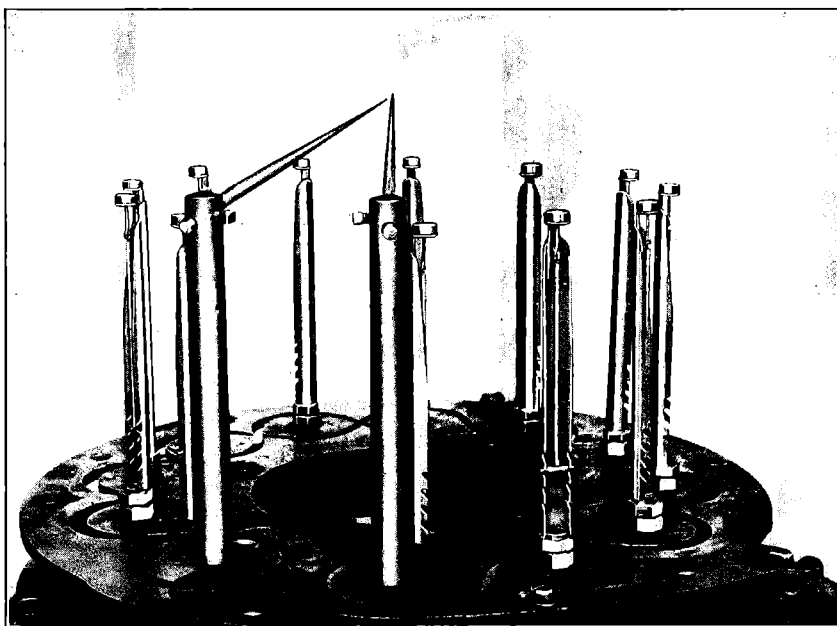
For Use Instead of Paper Tubes



The life of an ALL-STEEL TUBE, as illustrated, is practically unlimited as compared to a paper tube. The yarn is wound directly on the steel tube, exactly the same as when a paper tube is used.

Special Cop Holders in all sizes and types are made to accommodate this all-steel tube.

MOSSBERG PRESSED STEEL CORPORATION



FLAT ELASTIC BRAIDER

Equipped with

UN-I-FORM

Individual Rubber Tension Guides

UN-I-FORM Individual Tension Guides

Figure 1

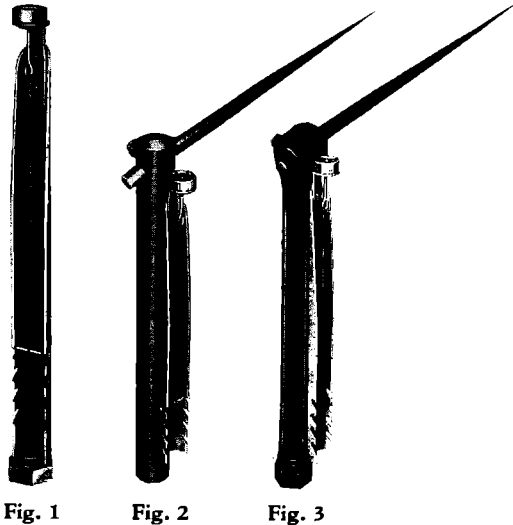
UN-I-FORM Individual
Warp Tension Guide. No.
612

Figure 2

UN-I-FORM Selvage
Post Tension Guide, round
post. No. 613.

Figure 3

UN-I-FORM Selvage
Post Tension Guide, cast
iron post. No. 613C.



Made to Fit All Sizes of Flat May-pole Type Braiders

THESE Tension Guides are especially recommended for use in producing high-quality elastic braid. Straight and even elastic braid can now be produced due to the absolute uniform tension on each individual strand of rubber. It is therefore highly desirable to use these UN-I-FORM Individual Rubber Tension Guides in producing braid which can not be "calendered," necessitating perfect braid being made directly on the braider.

Another important advantage obtained by the use of these tension guides is, that should the rubber strand break in between the tension guide and the braid, the end of the rubber is securely held at the top of the tension guide. This saves much of the operator's time by eliminating the usual necessity of finding the broken strand underneath the braider and re-threading the broken strand up into the braid.

In order to use these UN-I-FORM Individual Tension Guides, it is only necessary to remove your present warp posts and replace them with these

MOSSBERG PRESSED STEEL CORPORATION

new tension guides. On the Selvedge Post, it is only necessary to remove the present small sheave wheel and attach the special Tension Guide which is supplied to fit the various types of selvedge posts.

UN-I-FORM

Individual Warp Tension Guides

<i>Number</i>	<i>Make of Braider</i>
612	New England Butt Company
612 F	Fidelity Machine Company
612 T	Textile Machine Works

UN-I-FORM

Individual Selvedge Post Tension Guides

<i>Number</i>	<i>Make of Braider</i>	<i>Type of Selvedge Post</i>
613	New England Butt	Round Steel Post
613-C	New England Butt	Cast-Iron Post
613-F	Fidelity Machine	Tubular Steel Post
613-T	Textile Machine Works	Round Steel Post

When ordering UN-I-FORM Individual Tension Guides, please submit the following information: Specify height of present warp post or send sample. Size and make of braider. Number of carriers on braider. Also advise type of present selvedge post or send sample.

All-Steel Rubber Warp Beams

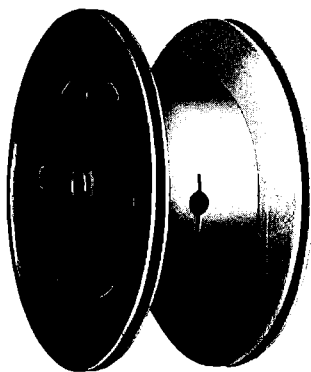


Figure 1

**Grooved Flange Steel
Rubber Warp Beam**

**Grooved Flange Steel
Rubber Warp Beam
*with Square Shaft***

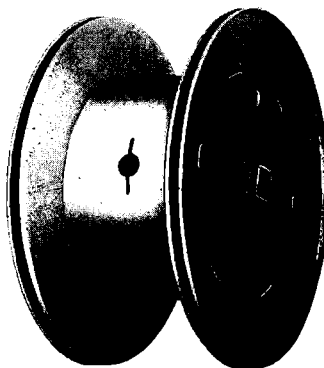


Figure 2



ALL-STEEL BEAMS made for rubber warps, for use in braiding machines, are practically indestructible and are not subject to checking or splintering, as frequently occurs with wood beams. The barrel of the beam is securely fastened to the heads in such a manner that there is no possibility of any rubber strands becoming caught at the junction of the head and the barrel.

The barrel of the beam is furnished with one or more keyways to facilitate starting the rubber warp. These keyways are all in line with the driving hole, permitting *multiple* beaming.

Beams are furnished with either a round center hole to accommodate a round shaft or a square hole for special square shafts.

These ALL-STEEL beams are furnished with grooved flanges, as illustrated, to accommodate the friction cord for tensionizing the beam. They can also be furnished with straight flanges when an *apron tension* is used.

These beams can be made to almost any dimensions required, but best results are obtained on standard work when 8-inch diameter heads and 5-inch diameter barrels are used. The traverse may vary in width to accommodate any required number of ends.

All-Steel Top Take-Off Reels for Braiding Machines and Light Work

These Reels are specially designed for use with braiding machines and are provided with a permanent driving pulley on one side. (See Fig. 1) They can also be furnished with detachable pulley if required. (See Fig. 2) Reels with permanent driving pulleys are usually furnished with round center hole, whereas reels with detachable driving pulleys are usually furnished with fixed shaft at center.

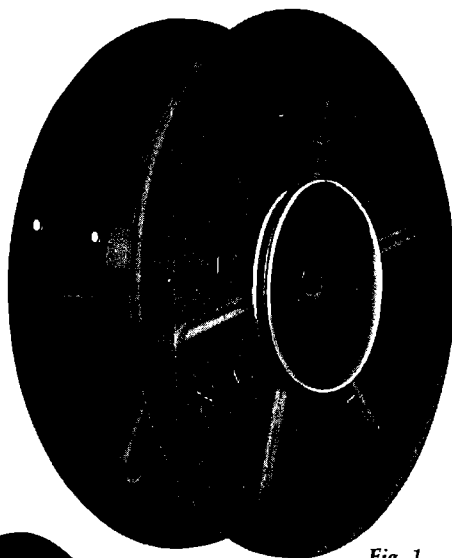


Fig. 1

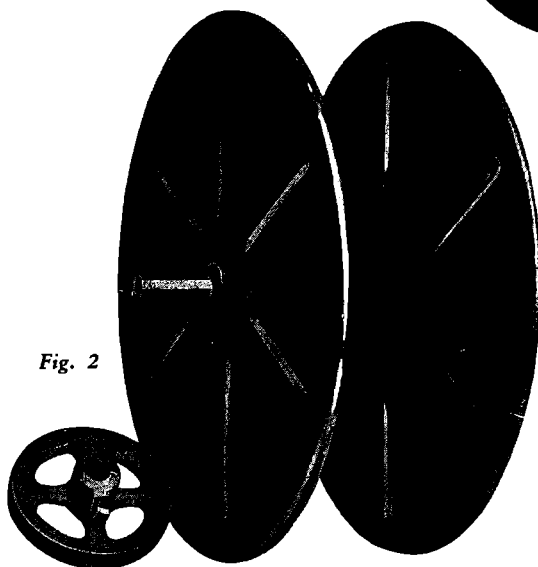


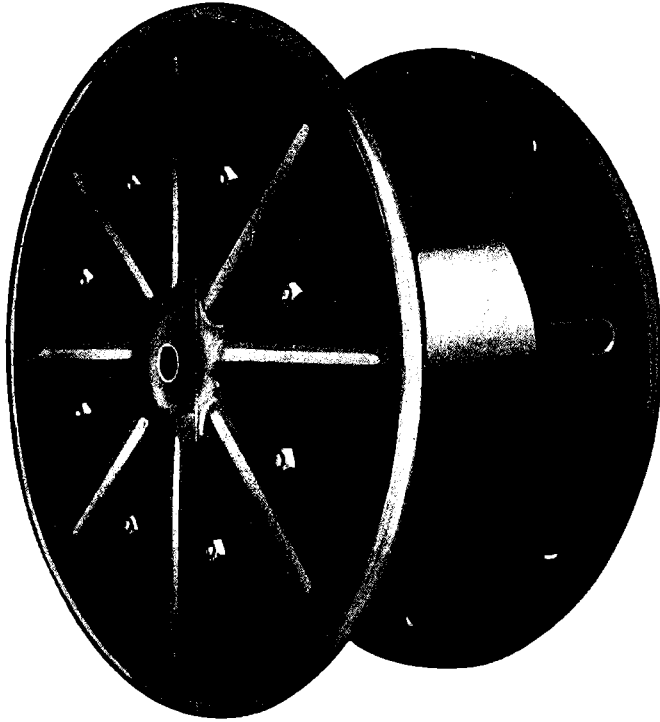
Fig. 2

These Reels are made of ALL-STEEL and are very strong and durable. The heads are reinforced with radial ribs and the outer edge is curled for added strength and convenience in handling.

The barrel is provided with patented rib fillers which prevent the material from becoming caught at the junction of head and barrel.

Send for Catalog No. 104 Illustrating Full Line of Steel Spools and Reels

All-Steel Take-Off Reels



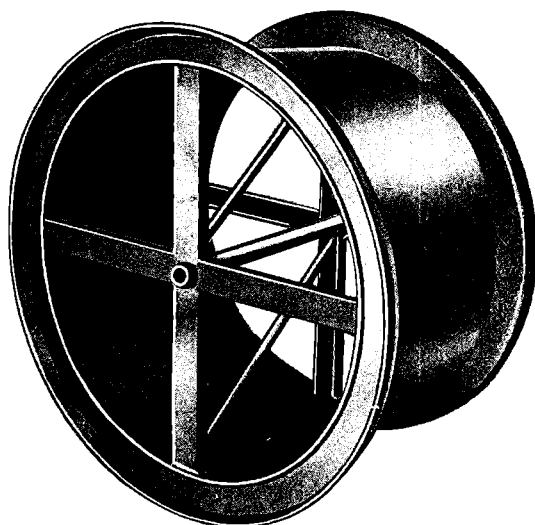
ALL-STEEL REEL of very sturdy design, recommended for use in taking off the braided product from the braiding machines. The heads are reinforced with large radial ribs, insuring maximum strength with minimum weight. Edge of head is curled for added strength and to facilitate handling.

These Reels can be made in any combination of sizes to suit individual requirements for either light or heavy work.

Send for Catalog No. 104 Illustrating Full Line of Steel Spools and Reels

Vulcanizing Reels

Patent No. 1,630,670



Open Center All-Steel Vulcanizing Reel

Made from 36 to 90 Inches Diameter

ALL parts are welded into one homogeneous unit. This design permits free and uniform heat circulation with no inside "condensation pockets."

The barrel is confined with a center hole in each head and is securely welded to same. This eliminates the common difficulty experienced in other designs of "flat spots" occurring on the barrel, the effect of which is so detrimental to unvulcanized wire.

This design is an exceptionally strong and durable one, having unusual strength, and yet is light in weight. It is an ALL-WELDED unit with no bolts to loosen or rivets to rust out and cause trouble.

MOSSBERG EQUIPMENT MEANS ECONOMY

Vulcanizing Pans

Patent No. 1,699,372



Made from 36 to 90 Inches Diameter

MADE of special rust-resisting steel. All parts welded into one homogeneous unit. No rivets to rust out and cause maintenance trouble.

Edges of bottom of pan are flanged for additional strength and durability. These Pans are made in any size from 36 to 90 inches diameter, with any size CENTER EYE from 14 to 48 inches, and to any depth required. Furnished with or without cover.

The above is lifted from the outer edge. For center-lift style see next page.

We Make Vulcanizing Pans for Special Purposes

MOSSBERG PRESSED STEEL CORPORATION

Vulcanizing Pans

Patent No. 1,699,372



Made from 36 to 90 Inches Diameter

LIKE the Pan on preceding page this is made of special rust-resisting steel and welded into one homogeneous unit with no rivets to rust and cause trouble.

Like the other the strength and durability are most exceptional.

In this Pan, lifting is accomplished by means of the center hook, the center being specially reinforced for this purpose.

Mossberg Vulcanizing Pans are Extremely Substantial

MOSSPEED High Speed Braider Carriers *for Use in the Manufacture of Insulated* **Wire and Cable, Etc.**

THERE is a double advantage in using MOSSPEED high speed, braider carriers in the manufacture of most types of insulated wire. Not only does the manufacturer benefit by the increased speed, which amounts up to approximately 80% on some sizes of carriers as compared to the speed of tension drop-weight carriers, but also a saving is accomplished in the amount of yarn used which amounts to 4%-7% (based on average conditions).

This saving in the amount of yarn used is due to the fact that the MOSSPEED Carrier exerts a more uniform tension on the yarn, than the tension dropweight carrier. It is possible to operate the MOSSPEED carriers with a greater tension and all "bowing" or "looping" of the yarn is eliminated.

This advantage of being able to operate MOSSPEED carriers with the greater tension naturally makes it possible to apply a tighter braid to the wire which is very desirable for some specifications. Altho this advantage can be had whenever required, the new "X" type MOSSPEED carrier permits the changing of tension springs very rapidly, thereby making it very simple and easy to equip the carrier with a lighter tension spring for work requiring a loose braid.

Open-end pigtail threadeyes are used on the MOSSPEED carrier, being made of special heat-treated alloy steel to insure maximum service.

The MOSSPEED carrier is so designed that it will accommodate either Universal-wound yarn packages or Parallel-wound, double-head bobbins.

Special designs of MOSSPEED carriers are furnished for braiding asbestos yarn, such as is commonly used in heater cord and for braiding copper-shielded wire when one or more ends of copper wire are used for the "shield".

MOSSBERG PRESSED STEEL CORPORATION

Approximate Recommended Speeds for MOSSPEED Carriers Used on Insulated Wire with Average Strength Cotton Yarn

<i>Size or Mosspeed Carrier</i>	<i>Size of May-pole Type Braider</i>	<i>Approx. dia. of Horn Gear</i>	<i>Recommended Horn Gear Speed</i>	<i>Approximate Excursions of Carriers around table on the following sizes of braiders</i>				
				<i>16 car.</i>	<i>20 car.</i>	<i>24 car.</i>	<i>36 car.</i>	<i>48 car.</i>
No. 2	No. 2	4"	256 R.P.M.	64	51.2	42.6	28.4	
No. 3	No. 3	5"	180 "	45	36	30	20	15
No. 4	No. 1 cable	6"	160 "	40	32	26.7	17.8	13.3
No. 5	No. 2 cable	7"	160 "	40	32	26.7	17.8	13.3

MOSSPEED MEANS UNIFORM BRAIDING

MOSSPEED High Speed Carriers *for* Use in the Manufacture of Elastic Braid *and* Elastic Cords

MOSSPEED High Speed Carriers are particularly adapted for use in the manufacture of elastic braid and increases in speed up to 80% can be obtained as compared to the speed of the tension dropweight carriers.

The uniform tension exerted on the yarn by the MOSSPEED Carrier produces a more even braid. This can be very easily noted from the clean straight selvages of the braid, producing a braid of constant and uniform "stretch."

Practically all "seconds" caused by grease spots are eliminated by the use of MOSSPEED Carriers due to the position of the open-end threadeyes. This, of course, means considerable saving especially on the higher quality braids.

All of the threadeyes are the open-end pigtail type made of special heat-treated alloy steel to insure maximum service. They are polished smoothly so as to handle even the finest of cotton, rayon or silk yarn without danger of "Chafing."

UN-I-FORM Individual Tension Guides are also recommended for tensionizing the rubber warp strands especially in the manufacture of high quality elastic braid. These UN-I-FORM Individual Tension Guides insure uniform tension being applied to each strand of rubber, making it possible to produce perfect braid on the braiding machine. These UN-I-FORM Individual Tension Guides are of special advantage in the production of so-called "crinkle" or "pucker" braid, which, due to their construction, can not be "calendered" and must be made perfect in the braider.

These UN-I-FORM Individual Tension Guides are illustrated on pages 28, 29 and 30 of this catalog.

Equipping a flat May-pole type braider with MOSSPEED high speed braider carriers and UN-I-FORM Individual Tension Guides converts your braider into a highly efficient, low-cost producing unit.

MOSSBERG PRESSED STEEL CORPORATION

Approximate Recommended Speeds for MOSSPEED Carriers Used on Flat Elastic Braid

Number of Carriers per Braider	STITCHES PER MINUTE	
	No. 1 Braider (3" dia. horn gear)	No. 2 Braider (4" dia. horn gear)
17	530	464
21	520	452.8
25	510	440
33	494	424
41	480	408
49	466	392
57	450	376
65	440	360

R.P.M. of horn gears equals stitches per minute divided by two.

NOTE—The above table of recommended speeds is based on average conditions and may have to be modified slightly to suit conditions peculiar to any one particular installation. Condition of braider, strength and quality of yarn, type and class of braid, arrangements of braider, etc., are the factors which have to be taken into consideration.

MOSSPEED High Speed Carriers Used in the Manufacture of Fish Line—Braided Shoe Thread, *etc.*

IN the manufacture of fine braided silk fish line, MOSSPEED high speed carriers can be used to distinct advantage. Not only is it possible to obtain a much higher speed of operation, but a line of greater tensile strength is produced by the constant and uniform tension exerted on the yarn irrespective of the position of the carrier. Each stitch is braided in place with the same amount of tension, thereby insuring each strand in the finished line being of uniform length which assures maximum tensile strength for the material used.

In the production of the finest silk fish line, as much as a 70% increase in speed has been obtained by the use of MOSSPEED Carriers.

In addition to using heat-treated, special alloy, open-end threadeyes on the MOSSPEED Carriers, these threadeyes are also chrome plated for increased hardness to insure maximum wear resistance. These special "wear resistant" threadeyes eliminate the necessity of any further polishing, which so frequently has to be done when tension dropweight carriers are used. No frayed silk or rough lines need be made with MOSSPEED High Speed Carriers, due to these special threadeyes.

The position of the threadeyes on the carrier is such that there is no danger of any grease spots appearing on the finished LINE, which is so important in the braiding of light-colored LINES.

In the production of braided shoe thread, the use of MOSSPEED high speed braider carriers is most essential in order to obtain a high rate of efficiency at a minimum cost.

Due to the usual high "braiding point" in the production of braided shoe thread, MOSSPEED carriers can be operated at speeds far in excess of those obtained from tension dropweight carriers, and increases up to 90% have been obtained.

MOSSBERG PRESSED STEEL CORPORATION

MOSSPEED high speed carriers are particularly adapted to this special product. The uniform tension exerted on the yarn by these carriers produces an exceptionally high-quality braided shoe thread of maximum tensile strength.

A sample set of MOSSPEED carriers will be furnished “on approval” for either of the above-mentioned items at any time^e upon request.

MOSSPEED MEANS HIGH SPEED BRAIDING

MOSSPEED High Speed Carriers *and* Miscellaneous Types of Braid

IN addition to the use of MOSSPEED carriers on specific items, as mentioned in preceding pages, these high speed carriers can be used to equal advantage on a great many other products, a few of which are listed below:

Automobile Assemblies

Shoe Laces

Insulated Sleaving

Corset Laces

Radio Cords

Spinning Banding

Heater Cords

Clothes Lines

Special Flexible Cords

Wicking

Picture Cords

Tapes

Curtain Cords

Lingerie Braids

Tire Cords

Dress Braids

Packings

Trimming Braids

Specific information regarding the use of MOSSPEED carriers on any of the above subjects will be gladly forwarded upon request.

If possible, please submit sample of the product which you desire to produce.

A sample set of MOSSPEED Carriers will be sent on approval at any time upon request.

MOSSBERG PRESSED STEEL CORPORATION

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ATTLEBORO MASSACHUSETTS U. S. A.

Memoranda

